

## CLAIMS

1. A method of manufacturing a safety helmet, comprising:  
forming a basic safety helmet comprising a basic outer shell having a brim integrally formed with a dome; and  
selectively removing portions of the basic safety helmet after said forming step to produce a modified safety helmet.
  
2. The method of claim 1, wherein said forming a basic safety helmet includes forming a basic safety helmet through at least one of injection molding and thermoforming.
  
3. The method of claim 1, wherein the basic safety helmet is composed of a polymer.
  
4. The method of claim 1, wherein the full brim has a width that varies around a lower perimeter of the dome.
  
5. The method of claim 1, wherein the basic safety helmet is formed in a single mold.
  
6. The method of claim 1, wherein said selectively removing portions of the basic safety helmet includes at least one of milling portions of the basic safety helmet.
  
7. The method of claim 1, wherein said selectively removing portions of the basic safety helmet includes at least one of selectively removing portions of the brim to form a modified brim and modifying the dome.
  
8. The method of claim 1, wherein the brim is a full brim having a uniform and constant width.

9. A method of manufacturing a plurality of hardhats, at least two of the hardhats having a different shape, comprising:

forming basic hardhats from a single mold, wherein the mold is configured to form a basic hardhat comprising a basic outer shell having a brim integrally formed with a dome; and

selectively removing portions of at least one of the brim and dome of each of the basic hardhats after said forming step to produce a plurality of modified hardhats, wherein at least two of the modified hardhats have different shapes.

10. The method of claim 9, wherein said forming basic hardhats from a single mold comprises forming the basic hardhats through injection molding.

11. The method of claim 9, wherein the basic hardhats are composed of a polymer.

12. The method of claim 9, wherein the brim has one of a constant width around at least a portion of a lower perimeter of the dome and a width that varies around at least a portion of the lower perimeter of the dome.

13. The method of claim 9, wherein said selectively removing portions of the basic hardhats includes at least one of machining portions of the basic hardhats.

14. The method of claim 9, wherein said selectively removing portions of the basic hardhats includes selectively removing portions of the brim to form a modified brim, wherein the different shapes are defined by different modified brims.

15. A method of manufacturing a safety helmet, comprising:  
forming, through a process of injection molding using a single mold, a basic  
safety helmet comprising a basic outer shell having a full brim integrally formed with a  
dome; and

selectively removing portions of the basic safety helmet after said forming step to  
produce a modified safety helmet.

16. The method of claim 15, wherein the basic safety helmet is composed of a  
polymer.

17. The method of claim 15, wherein the full brim has a variable width around  
a lower perimeter of the dome.

18. The method of claim 15, wherein said selectively removing portions of the  
basic safety helmet includes selectively removing portions of the full brim to form a  
modified brim.

19. The method of claim 15, wherein the full brim has a constant width.